

NorCal Engineering

Soils and Geotechnical Consultants
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May 5, 2000

Project Number 5936-96

Snyder Langston
17962 Cowan Drive
Irvine, California 92714

Attn: Mr. Deryl Robinson

RE: **Demolition of Existing Improvements** – Located at the Southwest Corner of 190th Street and Normandie Avenue, in the City of Los Angeles, California

Dear Mr. Robinson:

As requested, the following information regarding the demolition procedures at the above referenced site is being provided. The information and recommendations provided herein are preliminary only and are to be used as general guidelines during site work.

It is anticipated that numerous underground structures and basements will be encountered during demolition of the approximately 900,00 square feet of buildings located on 60 acres of land. Many of these structures may be able to be abandoned below grade, provided the following general recommendations are provided.

- All soils around subterranean structures should be removed to expose competent native ground. If it is found that subterranean structures lie atop uncertified fill soils, the structures must be removed.
- Subterranean basement areas may be left in-place provided the bottom of the structure is perforated to allow for drainage through the floor slab. Sidewalls shall be cut off a minimum of 5 feet below the bottom of any proposed overlying foundation or floor slab. Backfill materials must be compacted to a minimum of 90% of the laboratory maximum dry density as determined by test method ASTM: D1557.

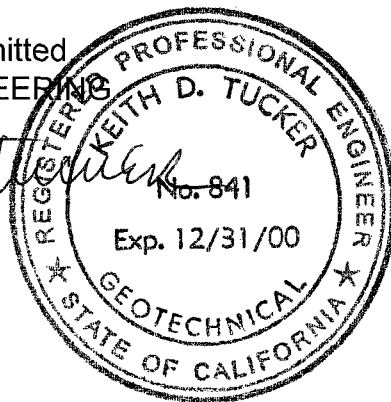
- Any other underground structure shall be abandoned to a depth which will allow the placement of a minimum of 5 feet of compacted fill soil between bottom of new foundations and floor slabs and top of abandoned structure.

These preliminary recommended guidelines for abandonment of subterranean structures may be utilized at this time for all proposed structural areas. The recommendations may need to be amended based upon case-by-case analysis of proposed construction, loadings and soil conditions. City of Los Angeles approval to abandon structures in-place may also be required via a code modification application process.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted
NORCAL ENGINEERING

Keith D. Tucker
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Project Engineer
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NorCal Engineering